



# SIKA AT WORK

## BASEMENT WATERPROOFING

### OBRA TOBIRA: UTE EDIFICI

### QUIROLA, ANDORRA LA VELLA

WATERPROOFING: SikaProof® A-12/08

BUILDING TRUST



# BASEMENT WATERPROOFING USING THE SikaProof® A-12/08 MEMBRANE SYSTEM



## PROJECT DESCRIPTION

This project was to waterproof the foundations and basement structure of the new Tobira building in Andorra, including the floor slabs and perimeter walls, from the lowest basement level all the way up to above street level, therefore accommodating a head of water from the water table of around 10 m.

## REQUIREMENTS

This building is in the City Centre of Andorra la Vella, which meant that the site was sloping and that following the excavation, the site had to be levelled with a concrete base layer that poured to form the bottom surface. This was done to ensure a uniform working surface, before the waterproofing system was installed to ensure watertightness from below under the basement slab itself. Similarly, on the piled coffer dam supporting and forming the excavation walls, any tie bar and bolt holes were injected with polyurethane resin foam to prevent excess water ingress, plus a pump was used continuously inside to keep the water below the desired level.



## SIKA SOLUTION

For this important and challenging waterproofing project, a pre-applied, fully bonded Sika system was selected. This solution was achieved using SikaProof® A-12/08 sheet waterproofing membranes for all of the foundations and below ground areas of the structure. This system was designed to be capable of withstanding a water pressure of up to 15 m head (1.5 bar). Additional and ancillary Sika materials were also used to complete the system for all of the necessary detailing and terminations etc., including: SikaProof® Tape-150, SikaProof® ExTape-150 and SikaProof® A-12 Edge pieces.

Similarly the horizontal joints between the floor slabs and the walls were sealed with the SikaFuko® VT-1 re-injectable injection hose system, for a complete long-term durable solution.

## PROJECT PARTICIPANTS

Owner: UTE Eidici Quirola

Contractor: MS GRUP

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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